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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/768,199	01/30/2004	David W. Wine	MVIS 98-10 C4	6115
7	590 12/17/2004		EXAMINER ASSAF, FAYEZ G	
Intellectual Promission, In	roperty Counsel			
PO Box 3008	ic.		ART UNIT	PAPER NUMBER
Bothell, WA 98041			2872	-
			DATE MAILED: 12/17/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			100			
	Application No.	Applicant(s)				
	10/768,199	WINE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fayez G. Assaf	2872				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence addres	SS			
A SHORTENED STATUTORY PERIOD FOR RE	PLY IS SET TO EXPIRE 3 M	ONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a man. The statutory minimum of thirty arold will apply and will expire SIX (6) MON tatute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this commu	unication.			
Status						
1) Responsive to communication(s) filed on _						
2a) This action is FINAL . 2b) ⊠	This action is non-final.					
3) Since this application is in condition for all	owance except for formal matt	ers, prosecution as to the me	erits is			
closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		·				
4)⊠ Claim(s) 40-79 is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are with	drawn from consideration.					
5) Claim(s) is/are allowed.	,					
6)⊠ Claim(s) <u>40-49 and 51-79</u> is/are rejected.	☑ Claim(s) <u>40-49 and 51-79</u> is/are rejected.					
7)⊠ Claim(s) <u>50</u> is/are objected to.	Claim(s) <u>50</u> is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Exar	miner.					
10)⊠ The drawing(s) filed on 30 January 2004 is.	☑ The drawing(s) filed on <u>30 January 2004</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1	.121(d).			
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-1	152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority document 	nents have been received.					
Certified copies of the priority document						
3. Copies of the certified copies of the		received in this National Sta	ge			
application from the International Bu	* * * * * * * * * * * * * * * * * * * *					
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🗍 Interview S	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s	s)/Mail Date	2)			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 1/30/2004. 	3/08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152	(2			

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DETAILED ACTION

Specification

The Abstract is objected to because it exceeds 150 words.

Correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 40-47, 51-53 and 61-70 are rejected under 35 U.S.C. 102(e) as being anticipated by Suzuki et al. (US 6,038,051).

Regarding claims 40-44, 64, 65 and 69, Suzuki discloses a beam scanner, comprising: a plurality of diodes operable to emit a plurality of respective beams of light; and at least one beam deflector aligned to receive the plurality of beams of light

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from the plurality of light sources and operable to scan the beams across respective overlapping regions of a field of view.

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Regarding claims 45, 46, 52, 53, 66-68 and 70, Suzuki discloses the light sources are operable to vary the intensity of the plurality of beams to blend overlapping regions of the field of view (line 50 of Col. 27 to line 5 of Col. 28).

Regarding claims 47, Suzuki discloses the at least one beam deflector being a single beam deflector (1D of Fig. 32).

Regarding claims 51, Suzuki discloses the overlapping regions being substantially distinct and overlap slightly (Xa and Xb of Fig. 32).

Regarding claims 61-63, Suzuki discloses a detector (3D of Fig. 32) aligned to receive beam energy scattered from the field-of-view and output an electrical signal corresponding to the received energy; and a controller (4D of Fig. 32) coupled to receive the electrical signal from the detector and output a representation of the received beam energy.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 48, 49, 54-60 and 71-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al.

Suzuki discloses the claimed invention except for:

The deflector including a Mems scanner.

The filed of view including an image plane of a display, retina, projection screen.

However, such features are well known in the prior art.

It would have been obvious, at the time the invention was made, to a person having ordinary skill in the art to adapt the scanner of Suzuki in other optical devices and use a Mems device rather than a Polygon mirror because it is smaller, compact and uses less power.

Allowable Subject Matter

Claim 50 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claim 50 is allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the overlapping regions of the field of view being arranged such that each region extends horizontally across substantially the entire field of view and overlaps with at least one vertically adjacent regions as set forth in the claimed combination.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hori et al. (US 2002/0163702 A1)

Nakamura et al. (US 2001/0024326 A1)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FA

12/12/2004

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